## MTC AIDS-II

COPYRIGHT (c) 1980, by

METATECHNOLOGIES CORPORATION, INC.
All Rights Reserved.

Use of this program will require the purchase of Radio Shack's TRSDOS

Disk Operating System.

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP.

INTRODUCTION	1
DOCUMENTATION FORMAT	3
AUTOMATED INFORMATION DIRECTORY SYSTEM (AIDS2) 0.	8
MAIN OPTION SELECTION	9
LOADING RECORDS FROM A DISK FILE	0
ADDING DATA RECORDS FROM THE KEYBOARD	0
SORTING DATA RECORDS IN MEMORY	0
UPDATING (CHANGING) DATA RECORDS IN MEMORY	0
DELETING DATA RECORDS IN MEMORY	0
DISPLAY/PRINTING DATA RECORDS IN MEMORY 6.	0
SAVING RECORDS INTO A DISK FILE	0
WRITING A DESCRIPTOR FILE 8.	0
MTC AIDS-II DEMONSTRATION PROGRAM (AIDSDEMO)	0
SELECTION SEQUENCE	3
DEFINING A NEW AIDS-II SYSTEM	6
DESCRIPTOR FILE FORMAT	7
MTC AIDS-II PRINT SUBSYSTEM (MAPS)	0
NAMING THE DESCRIPTOR FILE	8
PRINT OPTION SELECTION	9
PRINT DOWN THE PAGE	0
PRINT ACROSS THE PAGE (REPORT-TYPE FORMAT)	C
PRINT USER-DEFINED FORMAT	C
MAPS SELECTION SEQUENCE	. C
PRINT RECORDS FROM DISK DATA FILE	. 0

Congratulations! You are the owner of one of the most powerful data management tools available on a small computer. AIDS-II has been designed as a "total" package. By using the documentation, the demonstration program (AIDSDEMO), and the sample AIDS2-based address system (ADDRSYST), you will become proficient in the use of this critically acclaimed system in a short time. AIDS-II is a thinking-person's data manager. As with any non-trivial computer product, you will have to expend some effort to become thoroughly familiar with the system . . . for which you will be richly rewarded. Below is an excerpt from MTC's March, 1980 ad in 80 MICROCOMPUTING magazine.

MTC AIDS-II represents the essence of MTC's product development philosophy. Below are "testimonials" from four owners of the package. These are absolutely authentic statements and are typical of the comments we receive:

"The AIDS-II package is the most complete and easiest to use!"

David Johnson, President, John-Tronics Security Co. (Uses AIDS-II for client and prospect mailing lists, A/R, gun registration and alarm systems logs)

"It will do everything it's advertised to do plus whatever else your imagination allows. It is the best software value on the market today. AIDS-II is the most significant software development I've seen, and will have as large an impact on the marketplace as the Radio Shack TRS-80 did on the microcomputing market."

Vern Hall, V. Hall Insurance Agency (Nationwide Insurance)

(Uses AIDS-II for client and prospect mailing lists & follow-up systems, A/P, A/R))

"...the best system for the non-programmer I've ever used. It has an unlimited number of uses. I might have to buy another system just to have it on-line at all times..."

Robert I. Gross, CPA

(Uses AIDS-II for mailing labels, client reference system, for providing an audit trail to disburse funds to general ledger)

"...the most flexible and powerful system I've seen, especially with modules such as MAPS. The weakest part of the AIDS system is the Radio Shack Computer!"

L.G. Payne, Media Specialist, Strongsville High School (Uses AIDS-II for mailing lists, tracking of audio-visual materials, experimenting with student attendance records)

To get started, familiarize yourself with this manual. When the "mood" is right, load BASIC, specifying 3 files and setting user memory at the maximum for your particular machine. (If you have trouble doing this, refer to your Disk Operating System reference manual). After inserting your diskette with your AIDS-II system, type in:

## RUN "AIDSDEMO"

Section 9.0 of this manual contains a facsimile of the text of this program.

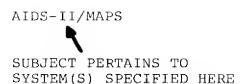
(Cont'd)

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP.

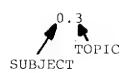
COPYRIGHT (c) 1980, by METATECHNOLOGIES CORPORATION, INC.

This manual has been written in the form of a quick reference quide, not a tutorial. Unce having studied the text of AIDSDEMO, spend some time "experimenting" with each of the MAIN OPTIONS of the sample address system, ADDRSYST. For example, try adding data records from the keyboard. Open this manual to Section 2.0 (the section number corresponds to the MAIN OPTION number), so that you may readily see the control options available. By spending a few minutes learning about each function, you will quickly grasp the fundamental concepts of AIDS2. To create an AIDS2 system for your specific needs, refer to Section 9.6. You will find that defining a system takes about a minute. Section 0.8 contains a brief discussion of the concepts of AIDS2. In Section 10.0 you will find a discussion of the MTC AIDS-II PRINT SUBSYSTEM (MAPS), which is capable of producing a wide variety of formatted output from your AIDS-II disk data files.

It is natural to be overwhelmed at first by the apparent complexity of the AIDS-II system. It is very similar to learning to drive a car. Initially the controls are unfamiliar, but with practice, the operations become very natural . . . almost second nature. Be patient and take it one step at a time. With a little effort up front, you'll be able to address your information requirements better than you may have thought possible.









THIS SYMBOL IS USED TO REPRESENT INFORMATION APPEARING ON THE TRS-80 VIDEO DISPLAY INFORMATION TYPED IN BY USER IS UNDERLINED. LINE PRINTER OUTPUT

THIS SYMBOL IS USED TO REPRESENT INFORMATION THAT HAS BEEN OUTPUT ON A LINE PRINTER

LABEL-TYPE OUTPUT THIS SYMBOL IS USED TO REPRESENT LABEL-TYPE, PRINTED OUTPUT

Sections 1 through 8 correspond to the respective functions as seen on the MAIN OPTION screen.

MODEL I

MODEL II

EXTER

Example of same key being used for identical function on Models I & II.



Example of different keys used on Models I & II for same function.







Example of the use of a SHIFTED or upper-case key (Model I).

AUTOMATED INFORMATION DIRECTORY SYSTEM (AIDS2) AIDS-II The following are useful notes and observations regarding the use of AIDS2-based programs:

- Configure BASIC for 3 files and maximum user memory before running programs.
- AIDS2 features minimal error messages. Some to be concerned 0 with are:
  - OUT OF MEMORY before MAIN OPTION SELECTION screen appears: Memory configured too small.
  - SYNTAX ERROR IN 10XX or OUT OF DATA before MAIN OPTION SELECTION screen appears: Data statements are improper.
  - TYPE MISMATCH before MAIN OPTION SELECTION screen appears: Probable missing data statement.
  - BAD FILE = XXXXX: Something wrong with a disk operation in file XXXXX including:
    - Diskette Full No more Room for data records.
    - 0 Not a FORMATTED Diskette.
    - 0 Not an AIDS2-compatible disk data file.
    - O Data file for another AIDS2-based program.
    - O Incorrect filename format.
    - Misspelled filename. 0
    - Disk Drive not turned on. 0
    - Diskette is write-protected. 0
    - No diskette in disk drive. Ω
    - Disk Read/Write Error.
  - FILE = XXXXX IN USE: Attempt to use ACTIVE file XXXXX in a way that is not compatible with its original purpose.
- $\circ$ "SELECT" options will degrade in speed if more than 3/4 of total records are being "USED" or if more than 200 records are being "USED."
- Use the following technique to sort more disk data records than can be held in memory at one time:
  - Break up file into logical groups, using a group size that will fit in memory. For example, NAME fields can be thought of as belonging in groups with beginning letters A-H, I-Q, R-Z.
  - Use SELECT & LOAD in conjunction with SELECT & DELETE to load and sort and save individual groups. For Example:
    - DELETE all records, SELECT & LOAD NAME < I, SORT NAME, SAVE "SAVEFILE/DAT".
    - DELETE all records, SELECT & LOAD NAME < R. SELECT & DELETE NAME ✓ I, SORT NAME, SAVE into ACTIVE file.
    - SELECT & LOAD NAME > Q, SORT NAME, SAVE into ACTIVE 0 file.
    - Deactivate ACTIVE save file.
- Use the following "windowing" technique to update or add records to large disk data files.
  - 1) Delete all records from memory.
  - 2) Add records from the keyboard.
  - 31 Load some records from file to be udpated (use the same ACTIVE file after starting process).
  - 4) Change any records requiring updates in memory.
  - 5) Save records from memory into disk data file (use the same ACTIVE file after starting process).
  - Repeat 1-5 until entire LOAD file has been updated and 6) saved.

SYSTEM NAME GOES HERE

\* RECORD(S) USED: 0 REWINNING: 222

RECORDS CONTRAIN THE FOLLOWING INFORMATION:

A -1ST FIELD D -4TH FIELD G -7TH FIELD J -10TH FIELD

B -2ND FIELD E -5TH FIELD H -0TH FIELD K -11TH FIELD

C -3ND FIELD F -4TH FIELD I -9TH FIELD L -12TH FIELD

1 - SELECT & LOND RECORDS

2 - NOD RECORDS

3 - SORT RECORDS

4 - SELECT & UPDATE RECORDS

5 - SELECT & PRINT RECORDS

6 - SELECT & SAWE RECORDS

7 - SELECT & SAWE RECORDS

8 - WRITE DESCRIPTOR FILE

The name (title) of the AIDS-II system appears on the top of the screen. The number of data records (in memory) appear below the name. A description of the data fields follows the record counts. To select an option, hit one of the keys below (hitting <ENTER) is not required). Terminating the program deactivates any "ACTIVE" data files (appearing in parentheses after options 1 and 7.

Model I	Model II	
1	• • •	Select and load data records from a disk file, adding records to those in memory (See Section 1).
2	• • •	Enter data records from keyboard, adding to those in memory (See Section 2).
3		Sort data records currently in memory (See Section 3).
4		Select data records in memory for updating (See Section 4).
5		Select data records in memory for deletion (See Section 5).
6		Select data records in memory for display/printing down the screen/page (See Section 6).
7		Select data records in memory to be saved in a disk file (See Section 7).
8	• • •	Create a disk file describing the format of the data records (See Section 8).
SHIFT 1	FI	Terminate program operation.

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP.

COPYRIGHT (c) 1980, by METATECHNOLOGIES CORPORATION, INC.

NTC RIDS-11 ADDRESS SYSTEM \* RECORD(S) USED: 8 REPAINING: 216

NAME OF LORD FILE; ROORSYST/DRT.

NTC AIDS-11 RODRESS SYSTEM \* RECORD(S) USED: 11 REPRINING: 285 NAME OF LORD FILE: ..... ACTIVE LOAD FILE=ROORSYST/DAT

NTC RIDS-11 ROOKESS SYSTEM \* RECORD(S) USED: 11 REPRINING: 285 HAVE OF LOAD FILE: \*..... ACTIVE LORD FILE=ROORSYST/DAT

After specifying the criteria through the SELECTION SEQUENCE by which records will be loaded, the name of the disk data file is entered. Upon hitting the ⟨ENTER⟩ key, records will be loaded from the beginning of this file. Each record will be checked to see that it is of the expected length. Loading from the file is terminated under 3 conditions:

- 1) When all data records in the file have been loaded.
- When all records in memory have been "USED".
- 3) If the  $\langle \uparrow \rangle$  key is hit.

If not all records in the file have been loaded, the file is considered to be "ACTIVE". If <SHIFT ↓> key is hit, instead of entering a filename, loading records from the ACTIVE file will continue where the process left off. To "DEACTIVATE" a load file, enter an "\*" instead of a filename. Entering any filename automatically deactivates an ACTIVE file. The criteria defined in the SELECTION SEQUENCE applies to all records loaded from all files that are specified.

\*\*\* NOTE \*\*\*

It is very important not to remove the diskette containing an ACTIVE load file, if the loading process will be continued with that file. If another load file is to be specified, the diskette may be removed.

(Cont'd)

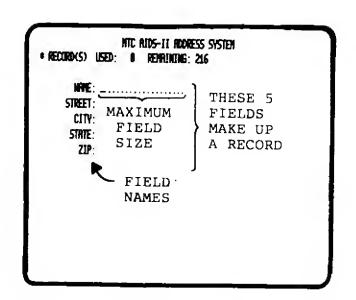
TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP. METATECHNOLOGIES CORPORATION, INC.

COPYRIGHT (c) 1980, by

Model I	Model II	
1	<b>b</b> • •	When hit while loading data records from a file, terminates loading process. When hit in place of entering filename, returns to "SELECTION SEQUENCE".
SHIFT 1	F1	Returns to "MAIN OPTION SELECTION".
SHIFT TAIHS	F2	Continue to load data records from "ACTIVE" file.
* ENTER	• • •	Deactivates currently "ACTIVE" file.

NTC RIDS-II ROORESS SYSTEM \* RECORD(S) USED: 11 REMAINING: 285 RECORDS CONTRIN THE FOLLOWING INFORMATION. A -NAME C -CITY E -21P D -STRTE 8 -STREET 1 - SELECT 4 LOAD RECORDS (ACORSYST/TAT) 2 - 900 RECORDS 3 - SORT RECORDS 4 - SELECT & UPDATE RECORDS 5 - SELECT & DELETE RECORDS 6 - SELECT & PRINT RECORDS 7 - SELECT & SAVE RECORDS 8 - WRITE DESCRIPTOR FILE CHOOSE OPTION: \_\_

Upon returning to the "MAIN OPTION" SELECTION", the name of a currently ACTIVE file will be displayed in parentheses next to the "SELECT & LOAD" option, as shown in this example.



In this example from the "ADDRSYST" AIDS-II system, data may be entered into each of 5 fields. Input from the keyboard is limited to the number of character positions defined for each field. To change a data record after it has been saved, choose the "UPDATE" function in the "MAIN OPTION SELECTION".

Model I	Model I	Į.
ENTER	• • •	Enter data into field. When last field is "ENTER"ed, data appearing on screen is saved in new record.
1	•••	Skip up to previous field. Does not alter data pre- viously "ENTER"ed in field.
<u> </u>	•••	Skip down to next field. Does not alter data pre- viously "ENTER"ed in field.
<b>—</b>	BACK	Delete the last character in field.
-	TAB	Right justify data within field. Use for typing in numbers.
ZHIFT T	F1	Cancel record additions and return to "MAIN OPTION SELECTION". Any data on screen is ignored.
SHIFT 1	F2	Save data appearing on screen into new record. Does not alter data previously "ENTER"ed in field. Does not perform "ENTER".
SHIFT -	4	Delete entire contents of field.
SHIFT -	<b>→</b>	Restore contents of field to that of data previously "ENTER"ed.

TRS-80 and RADIO SHACK are TRS-80 and RADIO SHACK are COPYRIGHT (c) 1980, by registered trademarks of TANDY CORP. METATECHNOLOGIES CORPORATION, INC.

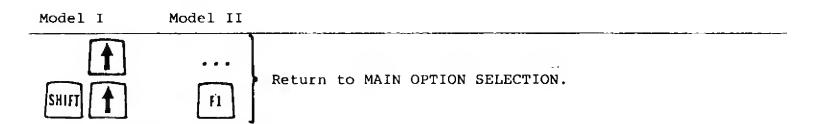
HTC AIDS-II ADDRESS SYSTEM

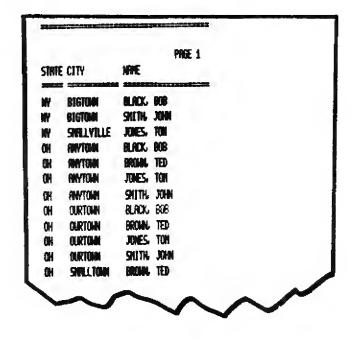
• RECURD(S) USED: 12 REMAINING: 284

A -NAME C -CITY E -ZIP
B -STREET D -STATE

SORT RECORDS BY (A-E): DCA.

In this example from the "ADDRSYST" AIDS-II system, 5 fields may be sorted in any combination. Enter the field specifiers (e.g. A-E) in the order in which the data should appear sorted for a report. Hit <ENTER> to begin the sorting process (which will typically take only a few seconds).





This "MAPS" report shows how the data records would be rearranged in memory. The order of sorting specification (above) was STATE(D), CITY(C) and NAME(A). All sorting in AIDS-II is into ascending order (i.e. lowest to highest) using the ASCII collating sequence.

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP.

COPYRIGHT (c) 1980, by METATECHNOLOGIES CORPORATION, INC.

NTC RIDS-11 ADDRESS SYSTEM \* RECORD(S) USED: 12 REPRINING: 284

> NAME: SHITH JOHN ..... STREET: 123 ERST STREET CITY: OURTOWN

STRITE: OH ZIP: 44132

In this example from the "ADDRSYST" AIDS-II system, any of 5 fields may be altered within the data record being displayed. Records are chosen for updating through the "SELECTION SEQUENCE". Input from the keyboard is limited to the number of character positions defined for each field.

Model I	Model II	
ENTER	• • •	Enter data into field. When last field is "ENTER"ed, data appearing on screen is saved in old record. Next record meeting selection criteria is displayed.
1	• • •	Skip up to previous field. Does not alter data previously "ENTER"ed in field.
1	• • •	Skip down to next field. Does not alter data pre- viously "ENTER"ed in field.
4	BACK	Delete the last character in field.
<b>→</b>	TAB	Right justify data within field. Use for typing in numbers.
SHIFT 1	F1	Save data appearing on screen into old record. Does not alter data previously "ENTER"ed in field. Does not perform "ENTER". If first record "SELECTED", returns to "SELECTION" screen, otherwise displays previous record meeting selection criteria.
SHIFT 1	F2	Save data appearing on screen into old record. Does not alter data previously "ENTER"ed in field. Does not perform "ENTER". If all records have been "SEL-ECTED", returns to "SELECTION" screen, otherwise displays next record meeting selection criteria.
SHIFT	4-	Delete entire contents of field.
ZHIFT -	<b>→</b>	Restore contents of field to that of data previously "ENTER"ed.

TRS-80 and RADIO SHACK are COPYRIGHT (c) 1980, by registered trademarks of TANDY CORP. METATECHNOLOGIES CORPORATION, INC.

\* RECORD(S) USED: 12 REMAINING: 284

A -NAME C -CITY E -ZIP
B -STREET D -STATE

SELECT & DELETE RECORDS BY (A-E).

In this example from the "ADDRSYST" AIDS-II system, data records in memory may be deleted by selecting records by the contents of any 5 fields by hitting a key corresponding to the respective field specifier (A-E). Hitting ⟨ENTER⟩ is not required. Refer to "SELECTION SEQUENCE" for further information.

Model II

Return to "MAIN OPTION SELECTION".

SHIFT 

F1

\*\*\*\* CAUTION \*\*\*\*

Delete all data records in memory and return to "MAIN OPTION SELECTION".

\* RECORD(S) USED: 12 REPRINING: 284

R -NAME C -CITY E -ZIP

R -NOPE C -CITY
B -STREET D -STATE

SELECT & DELETE RECORDS BY CITY= SWILL

(C)OUNT OR (D)ELETE: \_\_\_

In this example, all data records having the first 5 letters of the CITY field equal to "SMALL" will be deleted, if the <D> key is hit. Only data records in memory meeting the specified criteria may be counted or deleted.

Model I Model II

Count data records in memory meeting specified selection criteria.

Delete data records in memory meeting specified selection criteria.

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP.

COPYRIGHT (c) 1980, by METATECHNOLOGIES CORPORATION, INC.

MTC RIDS-II ADDRESS SYSTEM \* RECORD(5) USED: 12 REMAINING 294

E -ZIP A HAME C -CITY D -STATE B -STREET

SELECT & PRINT RECORDS BY (R-E): \_\_\_

In this example from the "ADDRSYST" AIDS-II system, data records in memory may be displayed/printed by selecting records by the contents of any of 5 fields by hitting a key corresponding to the respective field specifier (A-E). Hitting ⟨ENTER⟩ is not required. Refer to "SELECTION SEQUENCE" for further information.

Model I Model II Return to "MAIN OPTION SELECTION". F1 F 2 Display/Print all data records in memory.

HTC RIDS-11 ROORESS SYSTEM \* RECORD(S) USED, 12 REDIRINING, 284 C -CITY E -ZIP B -NONE B -STREET D -STATE

(C)OUNT OR (P)RINT: \_\_\_

CITY= SIRLL

SELECT & PRINT RECORDS BY

In this example, all data records having the first 5 letters of the CITY field equal to "SMALL" will be displayed/printed, if the < P> key is hit. Only data records in memory, meeting the specified criteria, may be counted or displayed/ printed.

(Cont'd)

Model I Model II Count data records in memory meeting specified selection criteria. Display/Print data records in memory meeting specified selection criteria.

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP. METATECHNOLOGIES CORPORATION, INC.

COPYRIGHT (c) 1980, by

JONES, TOM 345 NORTH STREET SWELLVILLE 10110 BROWN TED 567 SOUTH STREET SPILL TOWN 44119

In this example, all data records in memory meeting the specified criteria (CITY=SMALL) are displayed on the Video Display. After all selected records are displayed, control is returned to the "SELECT & PRINT" sequence.

JONES. TOM 345 NORTH STREET SALLVILLE 10118 AROMN, TED 567 SOUTH STREET SPELTOWN 44119

To obtain printed output on the Model I, simply turn on the printer (and the printer's "SELECT" switch) before completing the "SELECT & PRINT" selection sequence. On the Model II, respond by hitting the < Y> key to the query regarding whether the printer is turned on.

Model I

Model II



Return to "SELECT & PRINT" sequence.



HOLD

Hold display/printing of data records. Hitting this key again will continue display/printing.

NTC RIDS-11 RODRESS SYSTEM \* RECORD(S) USED: 12 REMAINING: 284

NAME OF SAVE FILE: SAVE/DAT\_\_\_\_

After specifying the criteria through the SELECTION SEQUENCE by which records in memory will be saved, the name of the disk data file is entered. Upon hitting the <ENTER > key, records will be saved from memory into this file. Saving of the file is terminated when all records SELECTED have been saved.

HTC RIDS-11 ADDRESS SYSTEM \* RECORD(S) USED: 12 REMRINING: 284

NAME OF SAVE FILE:

ACTIVE SAVE FILE=SAVE/DAT

NTC AIDS-11 ADDRESS SYSTEM \* RECORD(S) USED: 12 REMPINING: 204

NAME OF SAVE FILE: \*.....

ACTIVE SAVE FILE=SAVE/DAT

Upon termination, the file is considered to be "ACTIVE". If the  $\langle SHIFT \downarrow \rangle$  key is hit, instead of entering a filename, SELECTED records will be added to the end of (i.e., appended to) the ACTIVE file. To "DEACTIVATE" a save file, enter an "\*" instead of a filename. Entering <u>any</u> filename auto-matically deactivates an ACTIVE file. The criteria defined in the SELECTION SEQUENCE applies to all records saved into all files that are specified.

\*\*\* NOTE \*\*\*

It is very important not to remove the diskette containing an ACTIVE save file. All data records that have been saved will be IRRETRIEVABLY LOST if the diskette is removed from the disk drive. DEACTIVATING a file performs a CLOSE operation, after which the diskette may be removed. All ACTIVE files are DEACTIVATED upon normal program termination. (TURNING THE COMPUTER OFF DESTROYS THE DATA RECORDS IN MEMORY).

(Cont'd)

TRS-80 and RADIO SHACK are COPYRIGHT (c) 1980, by registered trademarks of TANDY CORP. METATECHNOLOGIES CORPORATION, INC.

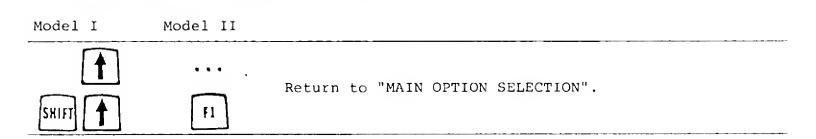
Model I	Model II	
1		Return to "SELECTION SEQUENCE".
SHIFT 1	Fi	Return to "MAIN OPTION SELECTION".
SHIFT 1	F2	Append SELECTED data records to the end of the "ACTIVE" file.
* ENTER	• • •	Deactivate (CLOSE) currently "ACTIVE" file.

NTC RIDS-II ROORESS SYSTEM \* RECORD(S) USED: 12 REMAINING: 204 RECORDS CONTRIN THE FOLLOWING INFORMATION: R -NPME C -CITY E -ZIP B -STREET D -STATE i - SELECT & LORD RECORDS 2 - ADD RECORDS 3 - SORT RECORDS 4 - SELECT & UPDRTE RECORDS 5 - SELECT & DELETE RECORDS 6 - SELECT & PRINT RECORDS 7 - SELECT & SAME RECORDS (SAME/DAT) 8 - WRITE DESCRIPTOR FILE CHOOSE OPTION: \_

Upon returning to the "MAIN OPTION SELECTION", the name of a currently ACTIVE file will be displayed in parentheses next to the "SELECT & SAVE" option, as shown in this example. DO NOT REMOVE THE DISKETTE FROM THE DISK DRIVE IF AN ACTIVE FILE IS DISPLAYED!

NTC RIDS-11 ROORESS SYSTEM \* RECORD(S) USED: 8 REMAINING: 216 NAME OF DESCRIPTOR FILE: ADDRSYST/DSC...

In order to communicate information such as the names and lengths of the data fields within the records, an AIDS2-based program (e.g. "ADDRSYST") can produce a "DESCRIPTOR" disk file. This file is required to run AIDS-II subsystems (e.g. MAPS, which is included in the AIDS-II package). This file need only be created once for each individual AIDS2-based program that is defined. (See "DESCRIPTOR FILE FORMAT" for more information).



CONGRATULATIONS! YOU ARE THE OWNER OF ONE OF THE MOST POWERFUL DATA MANAGEMENT TOOLS AVAILABLE ON A SMALL COMPUTER, AIDS-II.

SO THAT YOU MAY LEARN HOW TO USE AIDS-II AS QUICKLY AS POSSIBLE, A SAMPLE ADDRESS SYSTEM ( 'ADDRSYST' ) HAS BEEN IN-CLUDED AS PART OF THIS PACKAGE. AT THE END OF THIS DEMON-STRATION PROGRAM A SAMPLE DATA FILE WILL BE GENERATED AND THE AIDS-II BASED 'ADDRSYST' WILL BE RUN AUTOMATICALLY. THIS WILL ALLOW YOU TO GAIN EXPERIENCE WITHOUT RISKING ANY 'LIVE' DATA.

YOUR AIDS-II PACKAGE CONTAINS THE FOLLOWING PROGRAMS:

RIDSDEMO - DEMONSTRATION/DOCUMENTATION PROGRAM

AIDS2 - USER-DEFINED DATA MANAGEMENT PROGRAM

MAPS - MTC AIDS-II PRINT SUBSYSTEM

ADDRSYST - SAMPLE RIDS2-BASED ADDRESS SYSTEM

CERTAIN ASSUMPTIONS HAVE BEEN MADE REGARDING YOUR KNOWLEDGE OF THE COMPUTER. FIRST, THAT YOU KNOW HOW TO 'LOAD' AND 'RUN' \* BASIC \* PROGRAM, IF YOU DO NOT, REFER TO YOUR DISK OPER-ATING SYSTEM MANUAL, SECOND, THAT YOU KNOW WHAT A DISK FILE IS. AND THAT DISK FILE NAMES TAKE THE FORM, FILENAME/EXT:D. KNOWLEDGE OF PROGRAMMING WITH DISK FILES IS REQUIRED, ONLY THAT YOU CAN ENTER PROPER FILE NAMES. YOUR D.O.S. MANUAL CONTAINS THIS INFORMATION. THIRD, THAT YOU UNDERSTAND WHAT IS MEANT BY THE TERM, 'IN MEMORY'. INFORMATION THAT IS 'IN MEMORY' RESIDES WITHIN THE RANDOM ACCESS MEMORY CIRCUITS, NOT IN A FILE ON A DISKETTE. THIS DATA IS LOST WHEN THE COMPUTER IS TURNED OFF. ADDITION, DELETION, UPDATING AND SORTING OF DATA IN AN AIDS-II SYSTEM IS DONE 'IN MEMORY'. DATA MAY BE SAVED IN A DISK FILE.

TO UNDERSTAND AIDS-II, YOU MUST UNDERSTAND THE CONCEPT OF A 'FIELD', A 'RECORD' AND A 'FILE', A 'FIELD' IS THE SMALLEST UNIT OF INFORMATION IN AIDS-II. DATA FIELDS MAY CONTAIN THE NAME OF A PERSON, A ZIP CODE, AN INVENTORY COUNT, ALMOST ANY-THING, WITH AIDS-II, YOU DEFINE EACH DATA FIELD BY GIVING IT A NAME AND SPECIFYING THE NUMBER OF CHARACTERS OF DATA IT MAY CONTAIN.

A "RECORD" IS MADE UP OF ONE OR MORE FIELDS. IN MEMORY AND ON DISK, EACH RECORD'S LENGTH IS THE SAME AND IS EQUAL TO THE SUM OF THE LENGTHS OF THE INDIVIDUAL FIELDS. THE NUMBER OF RECORDS CONTAINED WITHIN A DISK FILE ARE LIMITED BY AVAILABLE SPACE ON THE DISKETTE. AIDS-II WILL AUTOMATICALLY DETERMINE HOW MANY RECORDS MAY BE IN MEMORY AT ONE TIME.

(Cont'd)

BELOW IS AN EXAMPLE OF AN ACTUAL RECORD FROM THE SAMPLE ADDRESS SYSTEM ( 'ADDRSYST' ), AS IT RESIDES IN MEMORY AND ON DISK.

	NAME(20)				CITYC	(2) ZIP(5)
*****	*******	***				****
SMITH	JOHN	123	ERST	STREET	OURTOWN	0H44132
		####	****	******	######	
				STREET(24)		STRTE(2)

THE SHADED AREAS SHOW THE LIMITS OF THE INDIVIDUAL FIELDS. ONE OR MORE RECORDS MAKE UP A 'FILE'. ALL THE RECORDS IN A FILE HAVE THE SAME NUMBER AND TYPES OF FIELDS. THIS IS A SIMPLE, BUT YERY IMPORTANT CONCEPT. IT IS THIS COMMONALITY THAT GIVES AIDS-II ITS POWER AND FLEXIBILITY.

'AIDS2' FORMS THE CORE OF THE AIDS-II SYSTEM. IT PROVIDES THE ACTUAL DATA MANAGEMENT CAPABILITIES ( ADD, DELETE, CHANGE, SORT, ETC. ). RIDS2 WORKS WITH DATA IN MEMORY, WHILE OTHER 'SUBSYSTEMS' ( SPECIAL PROGRAMS THAT EXPAND THE CAPABILITIES OF AIDS2 ) WORK WITH DISK DATA FILES CREATED BY AN AIDS2-BASED PROGRAM ( E. G. 'ADDRSYST' ). THESE SUBSYSTEMS NEED TO 'KNOW' THE FORMAT OF THE DISK FILES IN ORDER TO PERFORM THE TASKS FOR WHICH THEY WERE DESIGNED. TO COMMUNICATE INFORMATION SUCH AS THE NAMES AND LENGTHS OF THE DATA FIELDS WITHIN THE RECORDS IN THE DISK DATA FILES, RIDS2 CAN PRODUCE A 'DESCRIPTOR' DISK FILE. IN THIS WAY, A SINGLE SUBSYSTEM MAY BE USED WITH MANY AIDS2-BASED PROGRAMS.

INCLUDED WITH YOUR AIDS-II PACKAGE IS A SUBSYSTEM CALLED 'MAPS' ( MTC AIDS-II PRINT SUBSYSTEM ). MAPS GREATLY EXPANDS AIDS-II'S PRINTED OUTPUT CAPABILITIES. IT CAN QUICKLY AND ERSILY PRODUCE A WIDE VARIETY OF FORMATTED OUTPUT, INCLUDING REPORTS, LABELS, LISTS, ETC. IT IS WELL WORTH THE EFFORT TO BECOME FAMILIAR WITH ITS FEATURES.

IF YOU HAVE SPECIAL NEEDS, SUCH AS MAINTAINING COMPLEX MAILING LISTS OR PERFORMING NUMERIC CALCULATIONS ON YOUR DATA, MTC OFFERS SEVERAL ADDITIONAL SUBSYSTEMS THAT SIGNIFICANTLY ENHANCE YOUR AIDS-II PACKAGE. THEY ARE VERY MODERATELY PRICED.

CERTAIN NAMING CONVENTIONS HAVE BEEN ADOPTED FOR SPECIFYING DISK FILES. LISTED BELOW ARE THE RECOMMENDED CONVENTIONS.

- FOR AIDS2-BASED PROGRAMS, CHOOSE A ADDRSYST FILENAME THAT READILY IDENTIFIES THE PURPOSE OF THE PROGRAM

ADDRSYST/DAT - FOR DISK DATA FILES, USE A 'DAT' EX-TENSION FOR THE FILENAME.

ADDRSYST/DSC - FOR DESCRIPTOR FILES, USE A 'DSC' EX-TENSION FOR THE FILENAME.

(Cont'd)

TRS-80 and RADIO SHACK are COPYRIGHT (C) 1980, by registered trademarks of TANDY CORP. METATECHNOLOGIES CORPORATION, INC. TRS-80 and RADIO SHACK are

COPYRIGHT (c) 1980, by

IT IS TIME TO GET YOUR FEET WET. IF YOU FEEL READY TO TRY YOUR HAND, HIT THE <A> KEY AND A SMALL DISK DATA FILE CALLED 'ADDRSYST/DAT' WILL BE GENERATED AND 'ADDRSYST' WILL AUTO-MATICALLY BE "RUN". MAKE SURE YOU HAVE YOUR DOCUMENTATION NEAR: BY, A GOOD FIRST SESSION SHOULD TAKE ABOUT 1/2-HOUR. IT WILL TAKE ABOUT 4-5 HOURS OF EXPERIENCE TO TRULY APPRECIATE THE MORE SUBTLE FEATURES OF THE AIDS-II SYSTEM.

IF YOU FEEL UNEASY AND WISH TO REVIEW THIS TEXT AGAIN, HIT THE KRY KEY.

IF YOU WISH TO TERMINATE THIS PROGRAM HIT THE KID KEY.

NHICH DISK DRIVE ( 0-3 ) CO YOU WANT THE SAMPLE DISK DATA FILE WRITTEN ON ? 1

HAVE YOU INSERTED A FORMATTED DISKETTE IN THIS DISK DRIVE ? Y

WRITING 'ADDRSYST/DAT' ON DISK DRIVE 1

'RDORSYST/DRT' HAS BEEN WRITTEN ON DISK DRIVE 1

RUNNING 'ROORSYST'

## SCREEN A

NTC REDS-11 ADDRESS SYSTEM \* RECORD(S) USED: 12 REMAINING: 204 A -NEWE C -CITY E -21P 8 -STREET D -STRTE SELECT & PRINT RECORDS BY (R-E): \_\_\_

In this example from the "ADDRSYST" AIDS-II system, data records may be selected by the contents of any of 5 fields by hitting a key corresponding to the respective field specifier (A-E). Hitting **⟨**ENTER**⟩** is not required.

Model I Model II Return to "MAIN OPTION SELECTION." F1 Select all data records, skipping remainder of F2 SELECTION SEQUENCE, and perform PRINT, DELETE, etc.

### SCREEN B

NTC AIDS-11 RODRESS SYSTEM \* RECORD(5) USED: 12 REMAINING: 284 R -NRFE C -CITY E -ZIP B -STREET D -STATE

SELECT & PRINT RECORDS BY "NAME"

 ( LESS THAN - LESS OR EQUAL # NOT EQUEL ) GTR THAN + GTR OR EQUAL

CHOOSE RELATION: \_\_

Selection of data records is performed with respect to a specified relation and field value. For example, STATE= NY or CITY#CLEVELAND. Specifying NAME < J would select all names beqinning with letters A through I.

(Cont'd)

Model I Model II Return to Screen A (above). Return to "MAIN OPTION SELECTION". FI

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP. | METATECHNOLOGIES CORPORATION, INC.

COPYRIGHT (c) 1980, by

SCREEN C

HTC AIDS-II POORESS SYSTEM

• RECORD(S) USED: 12 REPRINING: 284

A -NAME C -CITY E -ZIP

B -STREET D -STATE

SELECT & PRINT RECORDS BY

NOME = B.......

In this example, all data records having the first letter of the NAME field equal to a "B" will be selected. Selection is performed by examining each data record with respect to the specified relation and for the length of the specified field value. (NAME=BR would select all records having the first two letters of the NAME field equal to "BR").

Model I

Model II



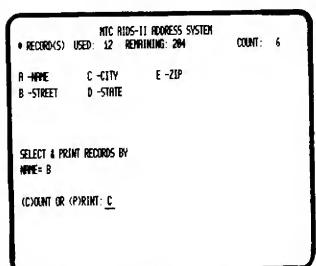
Return to SCREEN B (Previous Page).



F1

Return to "MAIN OPTION SELECTION".

SCREEN D



It is sometimes advantageous to count data records in memory meeting specified selection criteria. This provides a means of gauging the scope of a "selection" before taking action (i.e., PRINT, DELETE, etc.). Only data records in memory are counted ("SELECT & LOAD" does not allow a count). To take action, hit the key corresponding to the option selected (e.g. P=PRINT).

(Cont'd)

Model I

Model II

1

Return to Screen C (above).

SHIFT TAIKS

| F1 |

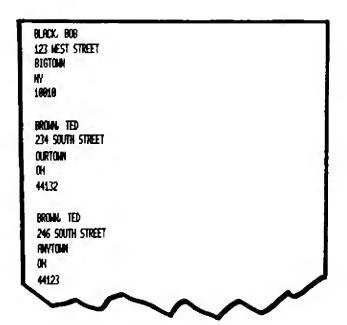
Return to "MAIN SELECTION OPTION".



Count data records in memory meeting specified selection criteria.

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP.

COPYRIGHT (c) 1980, by METATECHNOLOGIES CORPORATION, INC



In the example shown in Screen D (previous page), a "SELECT & PRINT" was chosen for NAME=B. Shown is a sample partial output of such a selection.

```
XLORD "RIDS2"
READY
XLIST 999-1100
999 ' SYSTEM DESCRIPTORS ( IN "DATA" STATEMENTS )
1000 DATA "SYSTEM MANE GOES HERE": ' NAME OF MTC RIDS-11 SYSTEM
1010 DATA 12: ' NUMBER OF FIELDS ( UP TO 12 )
1020 DATA "1ST FIELD",5: ' FIELD NAME, LENGTH OF DATA FIELD
1030 DATA "1ST FIELD",5, "300 FIELD",5, "4TH FIELD",4
1040 DATA "5TH FIELD",5, "6TH FIELD",6
1050 DATA "7TH FIELD",7
1060 DATA "8TH FIELD",8, "9TH FIELD",9, "18TH FIELD",1
1070 DATA "11TH FIELD",3, "12TH FIELD",2
1100 ' FIELD NAMES UP TO 12 CHARS. / SUN OF LENGTHS UP TO 254
READY
)_
```

While in BASIC (configured for 3 files), load "AIDS2". Listing lines 999 through 1100 shows the format for defining an AIDS-II system. The information is entered into DATA statements and the program is saved under any legal filename.

```
REPOY
XLORD "RIDS2"
REPOY
XDELETE 1888-1180
REPOY
X1808 DRTR "NTC RIDS-II RODRESS SYSTEM"
X1818 DRTR 5
X1820 DRTR "NRME", 20
X1820 DRTR "STREET", 24
X1846 DRTR "STREET", 12
X1858 DRTR "STREET", 5
X5RVE "RODRSYST"
REPOY
)_
```

After "LOAD"ing AIDS2, delete lines 1000 through 1100, as shown. Starting with line number 1000, type in DATA statements for the system name (title) and the number of fields. For each field, type the name and the number of character positions in the field. After this is done, "SAVE" the program under any legal file name.

The Descriptor File is an ASCII-format, sequential file.

```
MICAINS2 . . . . . . . . Identifies file as an AIDS-II descriptor file.
SYSTEM NOTE GOES HERE . . . . . Name (title) of AIDS-II system.
        . . . . . . Length of data records.
            . . . . Number of data fields in each record.
            . . . . Name of first data field.
1ST FIELD
          . . . . . Number of character positions in first data field.
          . . . . . Starting position of first data field in record.
20 FIELD
5
6
30 FIELD
5
11
4TH FIELD
16
STN FIELD
                        Specifications for each data field are in the
5
2
                        same format as for the first data field.
6TH FIELD
25
7TH FIELD
7
8TH FIELD
8
38
THE PROPERTY.
10TH FIELD
STAN FIELD
56
12TH FIELD
2
 3
```

The following are useful notes and observations regarding the use of AIDS2-based disk data files with MAPS:

- Configure BASIC for 3 files and maximum user memory before running program.
- MAPS features minimal error messages. Some to be concerned O with are:
  - OUT OF MEMORY before MAIN OPTION SELECTION screen appears: Memory configured too small.
  - BAD FILE = XXXXX: Something wrong with a disk operation in file XXXXX including:
    - Not a FORMATTED Diskette.
    - Not an AIDS2-compatible disk data file.
    - Data file for another AIDS2-based program.
    - Incorrect filename format.
    - Misspelled filename. 0
    - Disk drive not turned on. 0
    - Improper DESCRIPTOR file. 0
    - No diskette in disk drive. 0
    - Disk Read Error.
  - FILE = XXXXX IN USE: Attempt to use ACTIVE file XXXXX in a way that is not compatible with its original purpose.
- MAPS has no sorting capabilities. Data files should be sorted, if required, using an AIDS2-based program.
- MAPS has only simple selection capabilities (i.e., MAPS cannot SELECT CITY=CLEVELAND and STATE=OH, simultaneously). Use AIDS2-based program's selection functions (LOAD, DELETE, SAVE) to produce appropriate disk data file(s).
- MAPS will not right-justify numbers. This must be done using the function available when adding data records from the keyboard in an AIDS2-based program.

NTC ALOS-11 PRINT SUBSYSTEM (MAPS) MANE OF DESCRIPTOR FILE: ADDRSYST/DSC\_

In order to communicate information such as the names and lengths of the data fields within the records in a disk data file, an AIDS2-based program (e.g. "ADDRSYST") can produce a "DESCRIP-TOR" disk file. This file is required to run MAPS (an AIDS-II subsystem). Type in the name of the descriptor file associated with the disk data file(s) to be printed.

Model I

Model II



Fl

Terminate program operation.

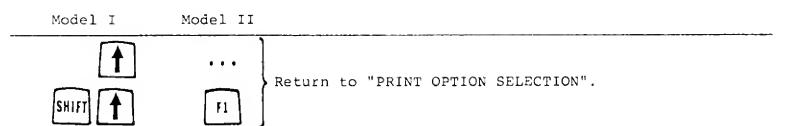
# NTC RIDS-II ADDRESS SYSTEM 1 - PRINT DOWN THE PAGE 2 - PRINT ROXOSS THE PAGE 3 - PRINT USER-DEFINED FORMAT CHOOSE OPTION: .

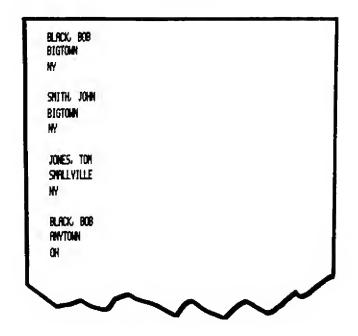
Upon entering the name of the descriptor file, the name (title) of AIDS2-based system, from which the file was generated, will appear at the top of the Video Display screen. Three display/ print options will be presented. Option 1 is used for the production of lists or rosters. Printing is performed down the screen/page in much the same form as the "SELECT & PRINT" option in AIDS2. Option 2 is used for report-type output printed across the screen/page. Page numbers and columnar headings are automatically generated. Option 3 is used for custom labels and non-standard forms of output.

Model I	Model II	
SHIFT 1	···	Return to "NAMING THE DESCRIPTOR FILE".
1	•••	Display/print selected data file records down the screen/page.
2	• • •	Display/print selected data file records across the screen/page (report-type format).
3	• • •	Display/print selected data file records on screen/ page according to user-defined format.

NTC RIDS-II ADDRESS SYSTEM A -NAME C -CITY E -ZIP B -STREET D -STATE PRINT DOWN THE PAGE SPECIFY FIELDS (A-E) TO BE PRINTED: ACO...

In this example, using a descriptor file generated by the AIDS2-based "ADDRSYST", selected disk data file records will be printed down the page in a manner similar to the AIDS2 "SELECT & PRINT" form. Only those fields specified will be displayed/printed, and will appear in the order defined. A blank line will separate each set of record fields.





At left is shown a sample of printing down the page using the fields specified above. To obtain printed output, simply turn on the printer (and the printer's "SELECT" switch) before completing the MAPS PRINT SELECTION SEQUENCE.

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP. METATECHNOLOGIES CORPORATION, INC.

COPYRIGHT (c) 1980, by

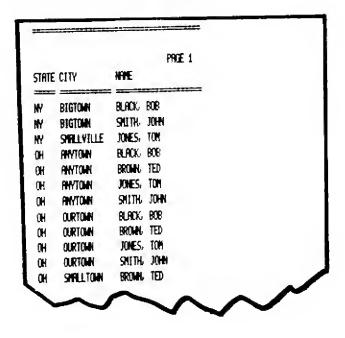
NTC RIDS-II ROORESS SYSTEM

A -NAME C -CITY E -ZIP
B -STREET D -STRIE

Print across the page Specify Fields (A-E) to be printed; ocr. In this example, using a descriptor file generated by the AIDS2-based "ADDRSYST", selected disk data file records will be printed across the page in a report-like format. Only those fields specified will be displayed/printed, and will appear in the order defined. Page numbers are automatically generated, along with columnar headings.

Model II

Return to "PRINT OPTION SELECTION"



At left is shown a sample of printing across the page. The data file was sorted, using the fields specified above. Tear lines are printed on page boundaries (every 8½ inches). To obtain printed output, simply turn on the printer (and the printer's "SELECT" switch) before completing the MAPS PRINT SELECTION SEQUENCE.

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP.

COPYRIGHT (c) 1980, by METATECHNOLOGIES CORPORATION, INC.

HTC ALOS-11 ADDRESS SYSTEM

A -NAME C -CITY E -ZIP
B -STREET D -STREE

PRINT USER-DEFINED FORMAT SPECIFY FIELDS (9-E) TO BE PRINTED: B/B/C. D.EZ In this example, using a descriptor file generated by the AIDS2-based "ADDRSYST", selected disk data records will be displayed/printed according to the user-defined format entered (see left). This example will display/print field "A" on line 1, field "B" on line 2, field "C" on line 3 followed by 2 spaces, field "D", 5 spaces, field "E", and 4 blank lines. (See special character functions below).

## CHARACTER (Model I & II)

## MEANING

SHIFT T	Return to "PRINT OPTION SELECTION".
Model 1 Model II	
All other characters	IGNORED
#	SKIP DOWN 10 LINES
8	SKIP DOWN 5 LINES
/	SKIP DOWN 1 LINE
!	PRINT 20 SPACES
:	PRINT 10 SPACES
;	PRINT 5 SPACES
	PRINT 1 SPACE (BLANK)
A - L	PRINT RECORD FIELD SPECIFIED

(Cont'd)

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP.

COPYRIGHT (c) 1980, by METATECHNOLOGIES CORPORATION, INC.

NTC RIDS-11 ADDRESS SYSTEM C -CITY E -ZIP R-NAME B -STREET D -STATE PRINT USER-DEFINED FORMAT SPECIFY FIELDS (8-E) TO BE PRINTED: A/B/C. D: EX (G)ENERATE SAMPLE OR (S)ELECT & PRINT. ...

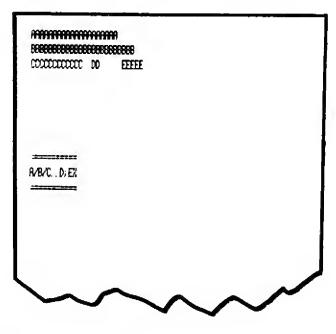
MAPS features the ability to review a sample display/print of a user-specified format. This allows correction or alteration of the specified format before beginning the MAPS PRINT SELECTION SEQUENCE.

Model I	Model II	
1		Return to user-defined format field specification.
SHIFT 1	F1	Return to "PRINT OPTION SELECTION".
G	• • •	Generate a sample of the format specified on the Video Display (and printer).
S	•••	Proceed to MAPS SELECTION SEQUENCE.

(Cont'd)

HONOROGE DO EFFEE	
₱. 8/8/C Di EZ	

A generated sample of a userdefined format is shown at left. The positions and maximum field sizes are represented by their respective field specifiers. The double dashed line (equal signs) indicates the first printed line of the next disk data record. To obtain printed output, simply turn on the printer (and the printer's "SELECT" switch) before generating sample.



Model II Model I



Return to user-defined format field specification.

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP. METATECHNOLOGIES CORPORATION, INC.

COPYRIGHT (c) 1980, by

HTC RIDS-II ROORESS SYSTEM

E -ZIP C -CITY B -STREET D -STATE

SELECT & PRINT RECORDS BY (A-E): .

The MAPS SELECTION SEQUENCE is identical, in concept, to the AIDS2 SELECTION SEQUENCE (See Section 9.3). Selection of data records is not from memory, but from disk files. No count of records meeting selected criteria is provided.

Model I	Model II	
1		Return to previous screen.
SHIFT 1	f1	Return to "PRINT OPTION SELECTION".
SHIFT	F2	Select all disk data records, skipping remainder of SELECTION SEQUENCE.

NTC RIDS-II RODRESS SYSTEM

NAME OF PRINT FILE: ADDRSYST/DAT...

HTC AIDS-II ADDRESS SYSTEM

Model II

NAME OF PRINT FILE: 4.....

Model I

ACTIVE PRINT FILE=ADDRSYST/DAT

After specifying the criteria through MAPS SELECTION SEQUENCE by which records will be printed, the name of the disk data file is entered. Upon hitting the (ENTER) key, records will be displayed/ printed from the beginning of this file. Printing from the file will be terminated if the ( ) key is hit or when all data records in the file have been printed. If not all records in the file have been printed, the file is considered to be "ACTIVE". Entering an "\*" or any filename deactivates an ACTIVE file. The criteria specified in the MAPS SELECTION SEQ-UENCE applies to all records displayed/printed from all files that are specified.

When hit while printing records from a file, terminates display/print process. When hit in place of entering filename, returns to "MAPS SELECTION SEQUENCE". SHIFT Returns to "PRINT OPTION SELECTION". F1 Continue to display/print data records from F 2 "ACTIVE" file. Deactivates currently "ACTIVE" file.

TRS-80 and RADIO SHACK are registered trademarks of TANDY CORP. METATECHNOLOGIES CORPORATION, INC.

COPYRIGHT (c) 1980, by

# MTC AIDS-II

# THE USER DESCRIBES THE NAME OF THE SYSTEM. THE NUMBER OF FIELDS, AND THE NAME AND SIZE OF EACH FIELD.

1690 CATA\*RIDS2 ACCOUNTS PRYMELE SYSTEM\*, 12 1619 DATA COMPANY, 26, STREET, 26, CITY, 12, STATE, 2, ZIP, 5, INVOICE NO., 4 1820 DATA INVOICE DATE, 8, DUE DATE, 8, PROD. /SERY, , 38, RYCONT, 7 1630 DATA MRITTEN ANT., 36, GAL. ACCOUNT, 7

3 RODING RECORDS IS EASY. THE USER CAN'T ENTER MORE INFORMATION THAN
IS TO GO IN A FIELD. THE USER CAN GO BACK TO CHANGE A FIELD OR SKIP OVER
FIELDS BY PRESSING AN UP OR DOWN ARROW. TO SAYE THE RECORD, THE
SHIFT-DOWN ARROW IS HIT. TO SELECT A MEN OPTION. THE SHIFT-UP ARROW IS HIT.

81052 ACCOUNTS PRYABLE SYSTEM

\* RECORD(S) USED: 11 REMAINING: 172

COMPRNY: QUALITY PRINTING CO.

STREET: 218 FOX RVE. CITY: M9PLE HTS.

STRIE: OH ZIP: 44121

INVOICE NO. : 4233 INVOICE DATE: 79-12-85 DUE DATE: 88-P1-85

PROD. /SERY. : PRINTING - NEWSLETTER

AMOUNT: 245.31

MRITTEN ANT. : ## THO HUNDRED FORTY-FIVE 431/198 ##

G/L ACCOUNT: 765-609\_

A "STABLE" SORT IS USED TO SORT THE RECORDS. THIS ALLOWS THE USER TO ARRANGE THE RECORDS BY "COMPANY" WITHIN "CITY" WITHIN "STATE" BY SIMPLY SORTING BY THOSE FIELDS, IN THAT ORDER. A SORT OF 260 RECORDS MOULD TAKE 3 SECONDS.

ALDS2 ACCOUNTS PRYABLE SYSTEM

\* RSCORD(5) USED: 11 REPRINING 172

A -COMPANY D -STATE G -INVOICE DATE J -FAIOUNT
B -STREET E -ZIP H -CUE DATE K -NRITTEN ANT.
C -CITY F -INVOICE NO. I -PROC. /SERV. L -G/L ACCOUNT

SORT RECORDS BY (RHL): L

5 "SELECT" OPTIONS ALLOW THE USER TO CHOOSE RECORDS USING ONE OF SIX RELATIONS ON ANY OF THE FIELDS.

ALOSZ ACCOUNTS PRYPPLE SYSTEM

A -COMPANY D -STATE G -INVOICE DATE J -FAIOURT
B -STREET E -ZIP H -CUE DATE K -KRITTEN ANT.
C -CITY F -INVOICE NO. I -PROD. /SERV. L -G/L RODOUNT

SELECT & PRINT RECORDS BY "DUE DATE"

= EQUAL ( LESS THAN - LESS OR EQUAL # NOT EQUAL ) GTR THAN + GTR OR EQUAL

CHOOSE PELATION: \_

2 RIDS-11 DECIDES HOW MANY RECORDS THE USER CAN WORK WITH AT ONE TIME. BRSED ON AVAILABLE MEMORY. THE USER CHOOSES ONE OF MINE MAIN OPTIONS.

RIDS2 ACCOUNTS PRYABLE SYSTEM

\* RECORD(S) USED: 0 REMAINING: 200
RECORDS CONTAIN THE FOLLOWING INFORMATION:

A -COMPANY D -STATE G -INVOICE DATE J -AMOUNT
B -STREET E -ZIP H -DUE DATE K -HRITTEN AMT.
C -CITY F -INVOICE NO. I -PROD. /SERY. L -G/L ACCOUNT

1 - SELECT & LORD RECORDS

2 - ROU RECORDS

3 - SORT RECORDS

4 - SELECT & UPCATE RECORDS

5 - SELECT & DELETE RECORDS

6 - SELECT & PRINT RECORDS

7 - SELECT & SRVE RECORDS

8 - WRITE DESCRIPTOR FILE

9 - QUIT ( EXIT )

CHOOSE OPTION: \_

6 The screen below would fillow the user to print fill the records with DUE dates greater than Dec. 30, 1979 (79-12-38).

RIDS2 ACCOUNTS PRYABLE SYSTEM

A -COMPANY D -STATE G -INVOICE DATE J -FAMOUNT
B -STREET E -ZIP H -CUE DATE K -NAITTEN ANT.
C -CITY F -INVOICE NO. I -PROC./SERY. L -G/L ACCOUNT

SELECT & PRINT FECORDS BY DUE DRIED 79-12-38

7 "LORD" AND "SRVE" FILES MAY CONTAIN ANY MUMBER OF RECORDS. A SPECIAL TECHNIQUE CALLED "MINDONING" IS USED TO MORK MITH ONLY PARTS OF THESE FILES. WRITING A "DESCRIPTOR" FILE ALLONS OTHER PROGRAMS, PARTICULARLY "MAPS", TO MORK MITH RIDS-II DATA FILES.

# RECORD(S) USED: 11 REMAINING: 189

HAVE OF SAVE FILE: AP/DAT:1....

8 MAPS (ATC RIDS-11 PRINT SUBSYSTEM) IS INCLUDED IN THE BRSIC RIDS-11 PROCEDURE. MAPS IS VERY POMERFUL AND FLEXIBLE, ALLOWING THE USER TO GENERATE LISTS, REPORTS, LABELS, CHECKS, AND MANY OTHER FORMS OF PRINTED OUTPUT. MAPS INCLUDES ALL THE "SELECT" FEATURES OF RIDS-11.

NTC RIDS-11 PRINT SUBSYSTEM (NSPS)

NAME OF DESCRIPTOR FILE: AP/DSC\_\_\_\_\_

9 AFTER R "DESCRIPTOR" FILE IS SELECTED. THE USER MAY CHOOSE ONE OF 3 OPTIONS. RIOSZ ROCOUNTS PRIMELE SYSTEM

1 - PRINT DOWN THE PROE

2 - PRINT ROXOSS THE PAGE

3 - PRINT USER-DEFINED FORMET

CHOOSE OPTION:

1 () WEN CHOOSING EITHER THE FIRST OR SECOND OPTION. THE USER SPECIFIES THE FIELDS IN ORDER OF APPEARSHOE. PRINTING ACROSS THE PAGE PRODUCES A REPORT-LIKE FORMRT. RIDS2 ACCOUNTS PRYABLE SYSTEM CHOOSING THE THIRD OPTION ALLOWS THE USER TO DEFINE THE PRINT FORMAT. FIELD SPECIFIERS, SEPARATED BY SPECIAL HORIZONTAL AND VERTICAL SPACING INDICATORS. ALLON UNIQUE FORMATS TO BE CREATED (LIKE THE CUSTOM LABEL BELOW). R -COMPRIEV D -STATE 6 - INVOICE DATE J - ANOUNT B -STREET E -21P ALDS2 ACCOUNTS PRYABLE SYSTEM H -DUE DATE K -HRITTEN ANT. C -CITY F - IHVOICE NO. I -PROD. /SERV. L -G/L ACCOUNT D -STATE G - INVOICE DATE J - FMOUNT R -COMPRRY PRINT ACROSS THE PAGE H -DUE DATE K - HRITTEN ANT. E -ZIP B -STREET F -INVOICE NO. I -PROD. /SERV. L -G/L ACCOUNT SPECIFY FIELDS (A-L) TO BE PRINTED: AHIJ. C -CITY PRE 1 PRINT USER-DEFINED FORMAT COMPRNY DUE DRITE PROD. /SERV. RICHT SPECIFY FIELDS (R-L) TO BE PRINTED: 8/8/C... D; E/// ARROW OFFICEASUPPLY 79-12-30 OFFICE SUPPLIES 34, 21 REPORT OFFICEASUPPLY 88-81-15 OFFICE SUPPLIES (G)ENERGIE SAPPLE OR (S)ELECT & PRINT: \_ 41.32 BURNS MEDIA, INC. 79-12-38 DISKETTES 1209, 89 APPON OFFICEASUPPLY BURNS MEDIA INC. 89-91-22 PLASTIC CASES 150, 25 4132 WINSLOW RD. BURNS NEDIR INC. 459, 89 88-81-28 DISKETTES CLEVELAND 44111 puplity printing co. 79-12-30 printing - national advertise. 312.56 QUALITY PRINTING CO. 80-01-05 PRINTING - NEWSLETTER 245, 31 QUALITY PRINTING CO. 80-81-27 PRINTING - STRTIONARY 810, 50 YOUNG OFFICE EQUIP. 79-12-38 FURNITURE - CONFERENCE TABLE 1501 42 BURNS MEDIA INC. YOUNG OFFICE EQUIP. 89-01-12 FURNITURE - DESK 352 21 25 FOREST RO. YOUNG OFFICE EQUIP. 80-81-13 FURNITURE - CONFERENCE CHAIRS 832.05 HICKLIFFE. OH 44694 12 PURCHASES, BY PRODUCT PURCHASES, BY ACCOUNT PURCHASES, BY DATE PROE 1 PROE 1 PROE 1 DUE DATE COMPANY PHOUNT COMPRAY PHOUNT GAL ACCOUNT DUE DATE AMOUNT PROO, ZSERY. 79-12-30 PRECN OFFICEASUPPLY 34, 21 BURNS MEDIAL INC. 1299, 99 79-12-39 1299 69 DISTETTES 6<del>00 000</del> 1208, 88 458, 88 79-12-30 BURNS MEDIA, INC. BURNS MEDIA. INC. DISKETTES CPG-000 89-81-22 150.25 79-12-30 QUALITY PRINTING CO. 312.56 832.65 FURNITURE - CONFERENCE CHAIRS YOUNG OFFICE EQUIP. 6<del>20 932</del> 89-61-28 459.00 79-12-30 YOUNG OFFICE EQUIP. 1501 42 FURNITURE - CONFERENCE TRELE YOUNG OFFICE EQUIP. 1591, 42 785-899 79-12-39 312 56 785-889 89-81-85 QUALITY PRINTING CO. 245.31 FURNITURE - DESK YOUNG OFFICE EQUIP. 352 21 80-81-85 245.31 89-91-12 YOUNG OFFICE EQUIP. 352.21 34.21 OFFICE SUPPLIES RPRON OFFICEASUPPLY 785-899 89-91-27 818.58 OFFICE SUPPLIES ARROW OFFICELSUPPLY 41 32 80-01-13 YOUNG OFFICE EQUIP. 832 85 79-12-39 34.21 815 809 88-81-15 ARROW OFFICEASUPPLY 红双 815-000 89-91-15 41.32 SAMPLE CHECK 136 META TECHNOLOGIES CORPORATION, INC. CLEVELAND, OHIO